Arizona Department of Health Services

ARIZONA – WEEKLY INFLUENZA SUMMARY

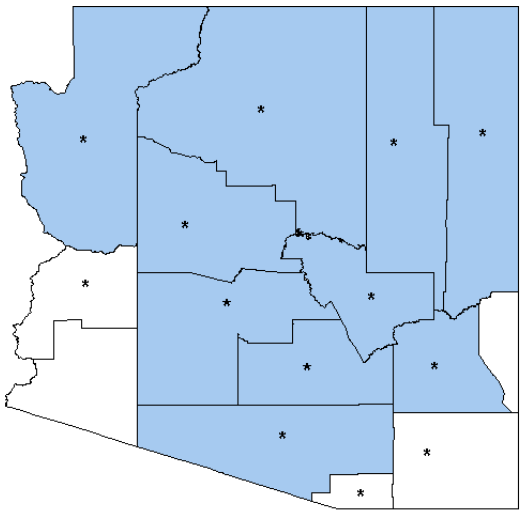
MMWR Week 18 (04/29/07 – 05/05/07) – Posted 05/07/07

Weekly Influenza Summary:
"Sporadic" influenza activity was reported in Arizona for the week ending on 05/05/2007 (week 18). A total of 1,588 cases have been reported from across 13 counties. Two pediatric influenza-associated deaths have been reported this season in Arizona. The influenza-like illness rate was near state baseline for week 17, though this value represents reports from less than 50% of Arizona's surveillance sites.

Data in this report are provisional and may change as more reports are received.

National influenza surveillance data are available at the CDC's Influenza Surveillance site (http://www.cdc.gov/flu/weekly/fluactivity.htm).

Influenza Activity by County:



Key:

***** = Any activity reported this season

Blue = Activity reported in past three weeks

White = No activity reported in past three weeks

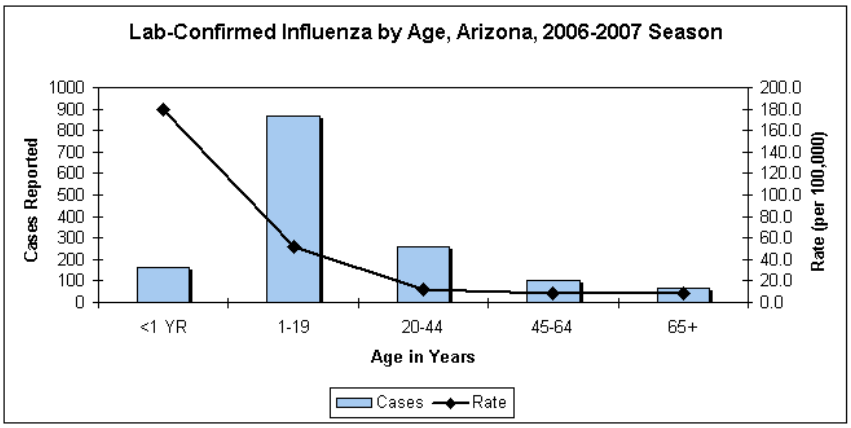
Influenza Cases Reported - 2006-2007 Season [1,588 cases]

County	# cases	County	# cases	County	# cases
Apache	36	Greenlee	0	Pima	190
Cochise	4	La Paz	2	Pinal	19
Coconino	88	Maricopa	1045	Santa Cruz	5
Gila	25	Mohave	21	Yavapai	7
Graham	125	Navajo	21	Yuma	0

Influenza Cases Reported - Week 18 [67 cases]

County	# cases	County	# cases	County	# cases
Apache	0	Greenlee	0	Pima	0
Cochise	0	La Paz	0	Pinal	0
Coconino	2	Maricopa	64	Santa Cruz	0
Gila	0	Mohave	0	Yavapai	0
Graham	0	Navajo	1	Yuma	0

Influenza Activity by Age:

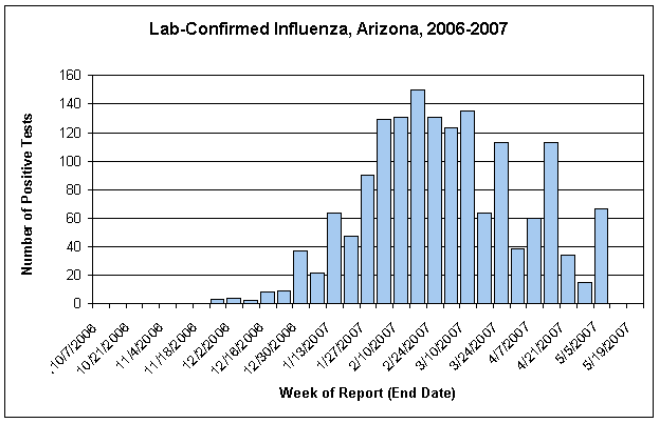


Lab Surveillance:

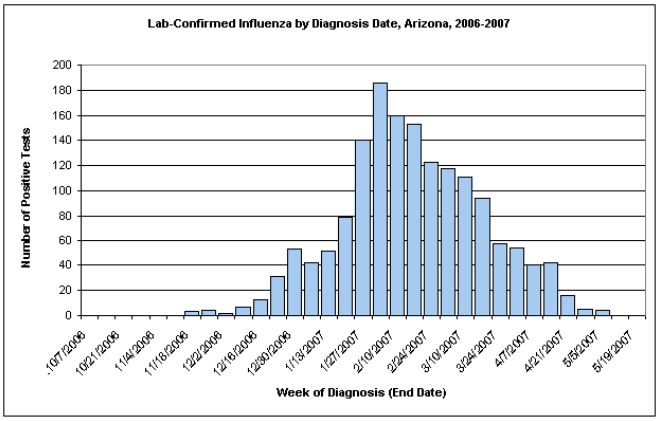
Laboratories report positive influenza tests to ADHS. Of the lab-confirmed influenza reported this season, 1013 were influenza A (444 confirmed by culture or PCR), 319 were influenza B (155 confirmed by culture or PCR), and 189 were unknown.

Some lab results from earlier in the season were not reported until weeks 12, 15, and 18, creating spikes in the graph of lab-positive cases by week of report (Graph A). By looking at these data instead by week of diagnosis, it is possible to see the actual downward trend of influenza in Arizona at those points (Graph B).

Graph A: Lab-Confirmed Influenza by Week of Report



Graph B: Lab-Confirmed Influenza by Week of Diagnosis

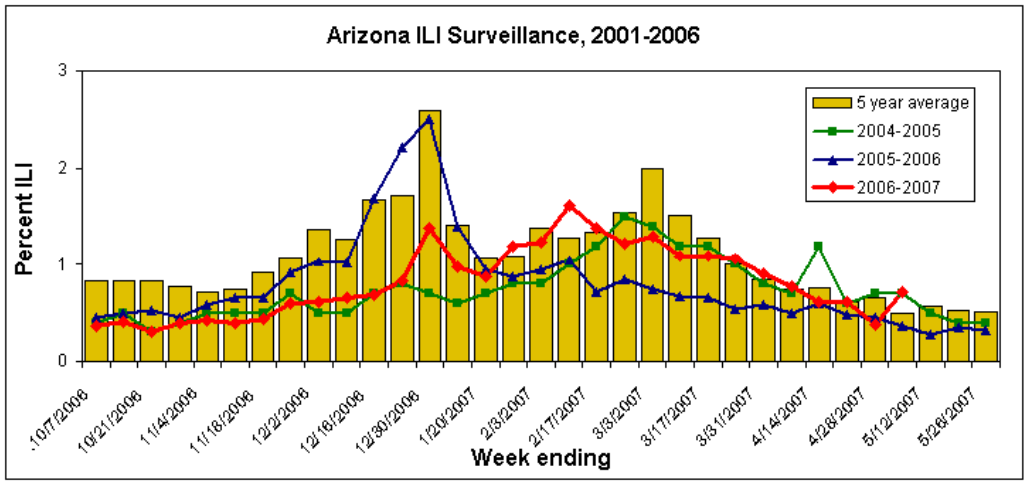


Subtyping – Culture or PCR Results:
Viral isolation, or culture, is currently the "gold standard" for diagnosis of influenza virus infections. The influenza subtype can be determined by a test called hemagglutination inhibition (HI) using viral isolates. Polymerase chain reaction (PCR) can also be used to identify influenza B and the hemagglutinin (H) component of influenza A.

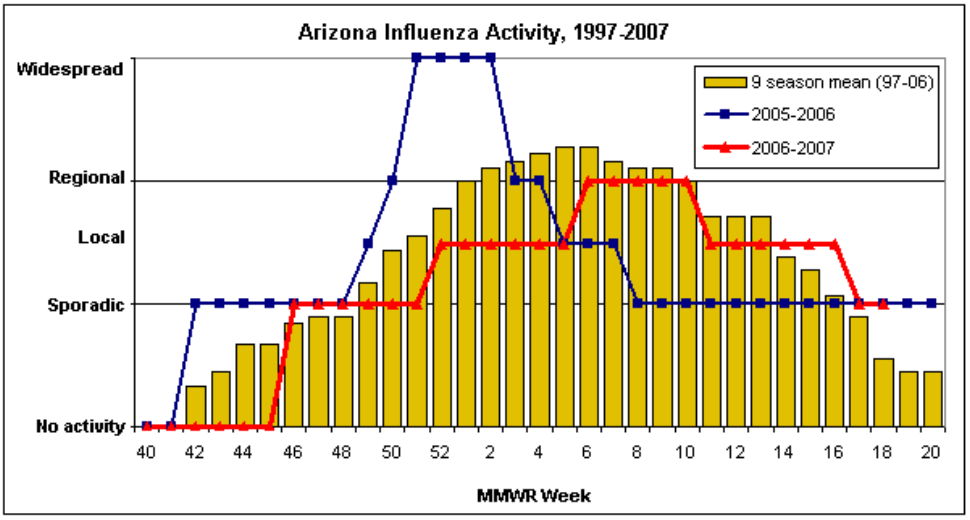
Of the 444 culture- or PCR-confirmed influenza A cases, 104 are H1N1, 127 are H1 by PCR, 9 are H3N2, 17 are H3 by PCR, and 187 have not been subtyped. Of the 155 culture- or PCR-confirmed influenza B cases, one is B/Shanghai, 34 are B/Malaysia, and 120 have not been subtyped.

Influenza-Like Illness (ILI) Surveillance from Sentinel Providers
The proportion of patient visits to sentinel providers for ILI in the state was 0.7% for the week ending 04/28/2007 (week 17). This value is just above the Arizona ILI baseline but represents reporting from less than 50% of sentinel providers.

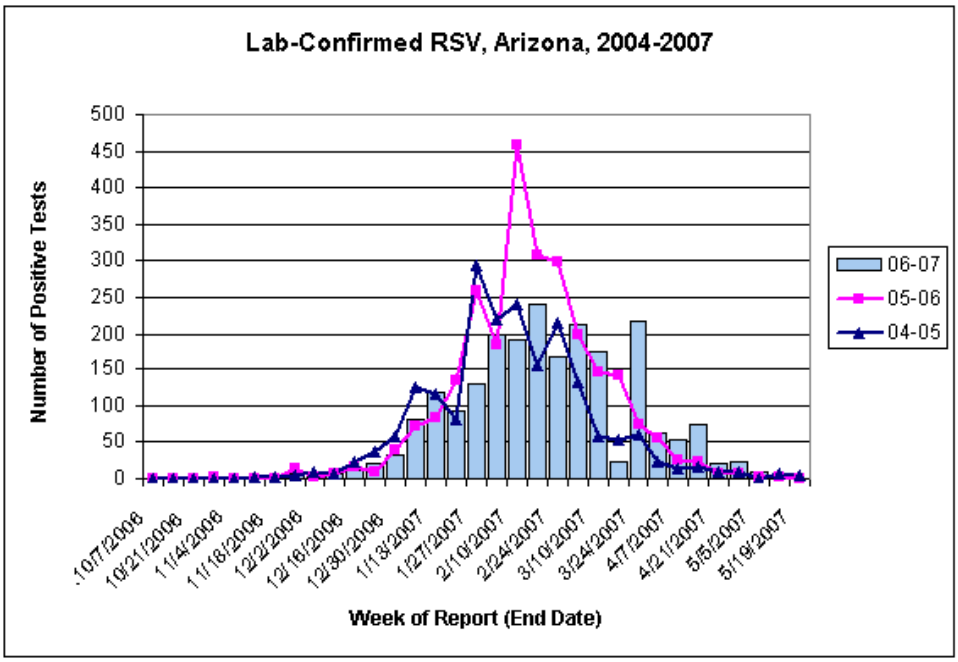
ILI is defined as a fever of at least 100ºF plus either a cough or a sore throat.



Historical Arizona Influenza Activity Levels
The graph below shows the influenza activity levels reported to the CDC this season in comparison to the last season and eight previous seasons. For week 18, Arizona reported "sporadic" activity. Definitions of these reporting categories can be found at http://www.cdc.gov/flu/weekly/fluactivity.htm.



RSV Activity in Arizona:
Respiratory syncytial virus (RSV) activity has been reported in Arizona. As of 05/05/2007, 2,186 lab-confirmed cases have been reported. Of these, 9 were reported during week 18.



As with influenza, many lab results from week 11 were not reported until week 12, creating spike in the graph of lab-positive cases by week of report (above). By looking at these data instead by week of diagnosis, it is possible to see the actual downward trend of RSV in Arizona at that time (below).